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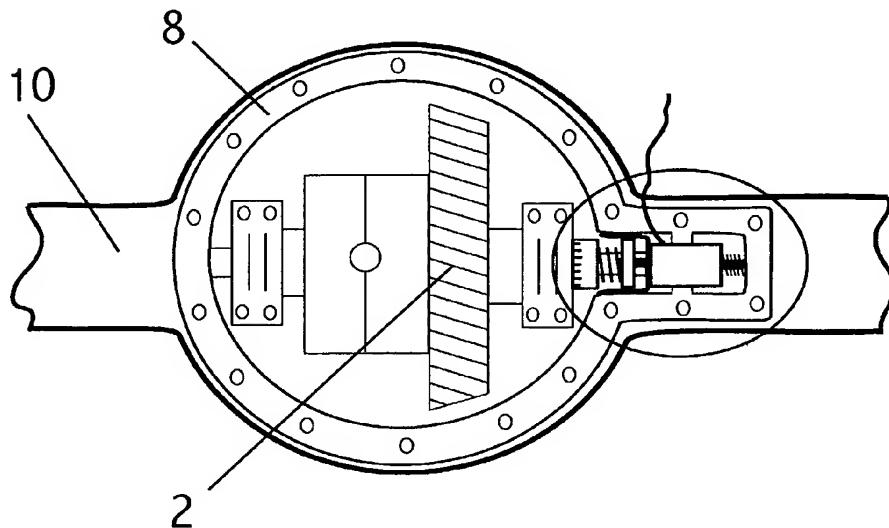
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(54) Title: DIFFERENTIAL LOCKING SYSTEM



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(57) Abstract: A system of mounting differential locking devices onto a range of vehicles, be it new vehicles or retro fitting onto existing older vehicles, by means of mounting the locking assembly under a removable diff cover. A shaped mounting ring is fixed onto the rear of the axle assembly, in place of a conventional diff pan. A removable diff cover, which is sufficiently shaped or enlarged to accept the locking actuator, is fitted to the mounting ring, encasing the whole diff and diff locking assembly. A solenoid (or other mechanical actuator device) is mounted inside the shaped ring, parallel to the half shaft. The solenoid is connected to a fork, which in turn communicates reciprocal movement which engages/disengages a sliding dog gear into a splined bearing journal, press fitted into the diff carrier. This action causes the opposing half shafts to be locked together or independent as desired.